# Performance Data Sheet

## AWG5524EXT

## General Information

| | | | |
|---|---|---|---|
| **Model** | AWG5524EXT | **Refrigerant** | R-22 |
| **Test Condition** | ARI | **Performance Test Voltage** | 230V 3~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | 3PH |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -15 | Btu/h | 5790 | 4830 | | | | | |
| | Watts | 978 | 947 | | | | | |
| | Amps | 3.48 | 3.40 | | | | | |
| | Lb/h | 74.1 | 65.0 | | | | | |
| -10 | Btu/h | 7510 | 6520 | 5470 | | | | |
| | Watts | 1090 | 1080 | 1060 | | | | |
| | Amps | 3.71 | 3.66 | 3.62 | | | | |
| | Lb/h | 95.9 | 86.9 | 76.6 | | | | |
| -5 | Btu/h | 9310 | 8260 | 7170 | 6040 | | | |
| | Watts | 1190 | 1190 | 1190 | 1180 | | | |
| | Amps | 3.91 | 3.90 | 3.89 | 3.87 | | | |
| | Lb/h | 118 | 109 | 99.1 | 87.6 | | | |
| 0 | Btu/h | 11200 | 10100 | 8920 | 7740 | 6530 | | |
| | Watts | 1280 | 1300 | 1310 | 1320 | 1320 | | |
| | Amps | 4.08 | 4.11 | 4.14 | 4.16 | 4.16 | | |
| | Lb/h | 141 | 132 | 122 | 111 | 98.2 | | |
| 5 | Btu/h | 13200 | 12000 | 10800 | 9510 | 8240 | | |
| | Watts | 1350 | 1390 | 1420 | 1450 | 1460 | | |
| | Amps | 4.23 | 4.30 | 4.37 | 4.43 | 4.47 | | |
| | Lb/h | 165 | 156 | 146 | 135 | 122 | | |
| 10 | Btu/h | 15300 | 14000 | 12700 | 11400 | 10000 | 8660 | 7290 |
| | Watts | 1420 | 1470 | 1520 | 1570 | 1600 | 1620 | 1620 |
| | Amps | 4.37 | 4.47 | 4.58 | 4.67 | 4.76 | 4.80 | 4.81 |
| | Lb/h | 191 | 181 | 171 | 160 | 147 | 134 | 119 |
| 15 | Btu/h | 17500 | 16100 | 14700 | 13300 | 11900 | 10400 | 9000 |
| | Watts | 1470 | 1540 | 1610 | 1670 | 1720 | 1760 | 1790 |
| | Amps | 4.48 | 4.62 | 4.76 | 4.90 | 5.02 | 5.12 | 5.17 |
| | Lb/h | 217 | 208 | 198 | 186 | 174 | 160 | 145 |
| 20 | Btu/h | 19900 | 18400 | 16900 | 15400 | 13900 | 12300 | 10800 |
| | Watts | 1520 | 1610 | 1690 | 1770 | 1840 | 1890 | 1940 |
| | Amps | 4.58 | 4.75 | 4.93 | 5.11 | 5.27 | 5.41 | 5.51 |
| | Lb/h | 246 | 236 | 225 | 214 | 201 | 187 | 173 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **25** | Btu/h | 22600 | 20900 | 19300 | 17600 | 16000 | 14300 | 12700 |
| | Watts | 1560 | 1660 | 1760 | 1850 | 1940 | 2010 | 2080 |
| | Amps | 4.66 | 4.87 | 5.08 | 5.30 | 5.50 | 5.69 | 5.83 |
| | Lb/h | 276 | 266 | 255 | 243 | 230 | 216 | 202 |
| **30** | Btu/h | 25400 | 23600 | 21800 | 20000 | 18300 | 16500 | 14700 |
| | Watts | 1590 | 1710 | 1820 | 1930 | 2040 | 2130 | 2210 |
| | Amps | 4.73 | 4.97 | 5.22 | 5.48 | 5.72 | 5.95 | 6.14 |
| | Lb/h | 309 | 298 | 287 | 274 | 261 | 247 | 232 |
| **35** | Btu/h | 28400 | 26500 | 24600 | 22600 | 20700 | 18800 | 16900 |
| | Watts | 1620 | 1750 | 1880 | 2000 | 2120 | 2230 | 2330 |
| | Amps | 4.78 | 5.06 | 5.35 | 5.64 | 5.93 | 6.19 | 6.43 |
| | Lb/h | 344 | 333 | 321 | 308 | 294 | 280 | 265 |
| **40** | Btu/h | 31700 | 29600 | 27500 | 25400 | 23400 | 21300 | 19300 |
| | Watts | 1640 | 1780 | 1930 | 2070 | 2200 | 2330 | 2440 |
| | Amps | 4.83 | 5.14 | 5.46 | 5.79 | 6.12 | 6.43 | 6.71 |
| | Lb/h | 382 | 370 | 357 | 344 | 330 | 315 | 300 |
| **45** | Btu/h | 35300 | 33000 | 30700 | 28500 | 26200 | 24000 | 21800 |
| | Watts | 1650 | 1810 | 1970 | 2130 | 2280 | 2420 | 2550 |
| | Amps | 4.87 | 5.21 | 5.57 | 5.93 | 6.30 | 6.65 | 6.97 |
| | Lb/h | 422 | 409 | 396 | 382 | 368 | 353 | 337 |
| **50** | Btu/h | 39100 | 36700 | 34200 | 31700 | 29300 | 26900 | 24600 |
| | Watts | 1670 | 1840 | 2010 | 2180 | 2350 | 2500 | 2650 |
| | Amps | 4.89 | 5.27 | 5.66 | 6.07 | 6.47 | 6.86 | 7.23 |
| | Lb/h | 466 | 452 | 438 | 424 | 409 | 393 | 377 |
| **55** | Btu/h | 43300 | 40600 | 37900 | 35300 | 32700 | 30100 | 27500 |
| | Watts | 1680 | 1860 | 2050 | 2230 | 2410 | 2580 | 2750 |
| | Amps | 4.92 | 5.32 | 5.75 | 6.20 | 6.64 | 7.07 | 7.48 |
| | Lb/h | 513 | 498 | 483 | 468 | 452 | 436 | 419 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 1.826734E+04 | 1.185945E+03 | 5.268317E+00 | 1.750161E+02 |
| C2 | 5.356825E+02 | -6.069039E+00 | -8.638939E-03 | 5.335864E+00 |
| C3 | -6.373487E+01 | -2.894974E+00 | -4.497254E-02 | -4.790434E-02 |
| C4 | 4.256283E+00 | -1.619750E-01 | -3.859796E-04 | 3.313021E-02 |
| C5 | -2.308259E+00 | 2.265403E-01 | 3.394641E-04 | -1.379487E-02 |
| C6 | -3.639058E-01 | 8.452571E-02 | 5.346767E-04 | -4.127280E-03 |
| C7 | 2.747443E-02 | 1.096170E-03 | 2.220456E-06 | 3.137292E-04 |
| C8 | -2.686270E-02 | -7.833635E-04 | -6.947015E-07 | -1.640202E-04 |
| C9 | 5.322314E-03 | 6.627812E-04 | 2.231035E-06 | 7.428285E-05 |
| C10 | 6.678262E-04 | -4.278339E-04 | -1.975234E-06 | -6.751217E-06 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature